

NASA TECH BRIEF

Manned Spacecraft Center



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Pressurized Suits Can be Fabricated with Adjustable Dimensions

The problem:

Pressurized suits utilized in commercial aviation and experimental medical applications are difficult and expensive to construct. Furthermore, the sizing of each suit during the manufacturing process re-

quires different sized molds and completely different sets of root cords to accommodate the various sizes of the wearers.

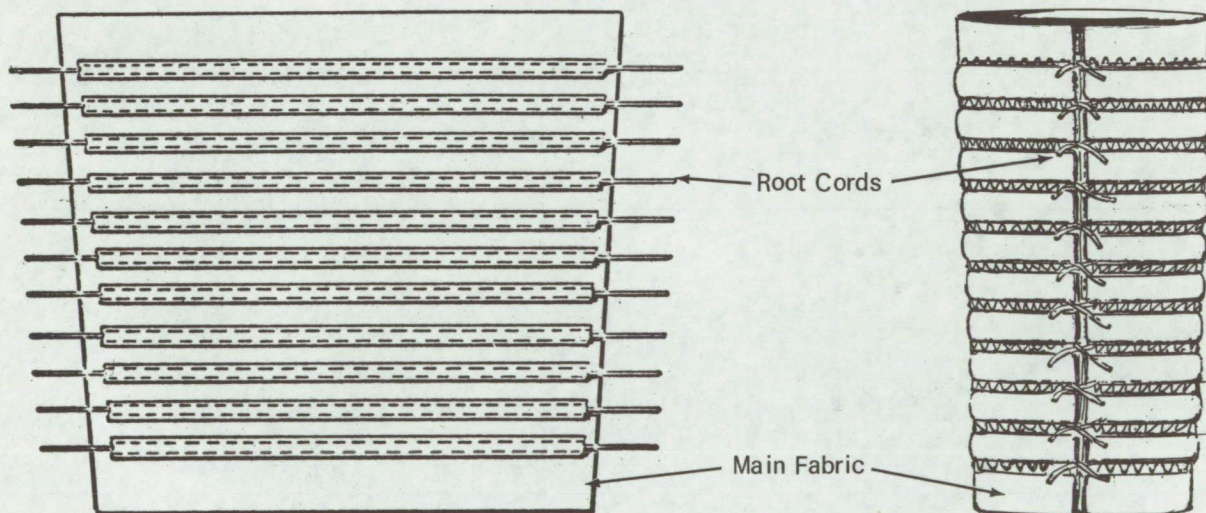
The solution:

Place the root cords within tube-like channels to form convolutes. The length of the cords can then be varied to adjust to the wearer's dimensions.

How it's done:

A root-restrained fabric convolute is formed by starting with a sheet of fabric which has an array of straight root cords laid across it. Each cord is

positioned on the fabric according to the desired spacing of roots in the final convolute section (see fig.). The root cords are restrained in cloth tunnels formed by stitching long, narrow pieces of fabric onto the main fabric section. The cords are marked



(continued overleaf)

Note:

Requests for further information may be directed to:

Technology Utilization Officer
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Reference: TSP71-10092

Patent status:

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